

WHAT IS CLAIMED IS:

- Sub 92*
1. A reflective-type liquid crystal display device comprising :
first and second substrates;
a liquid crystal layer between the first and second substrates; and
at least one uniaxial optical compensation film over the second substrate.
 2. The device of claim 1, further comprising a reflective electrode formed over the first substrate. *a*
 3. The device of claim 1, wherein said at least one uniaxial optical compensation film is negative-type.
 4. The device of claim 1, wherein said at least one uniaxial optical compensation film is positive-type.
 5. The device of claim 1, further comprising:
a first alignment layer over the first substrate; and
a second alignment layer over the second substrate. *a*
 6. The device of claim 5, wherein said first alignment layer has a first alignment direction, and said second alignment layer has a second alignment direction different than said first alignment direction. *D*

18. The method of claim 14, wherein at least two of said plurality of first alignment directions of the first alignment layer are substantially perpendicular to one another.

19. The method of claim 14, wherein at least two of said plurality of first alignment directions of the first alignment layer are parallel to one another.

20. The method of claim 14, wherein said forming a first alignment layer includes exposing said first alignment layer to ultraviolet light to form said plurality of first alignment directions.

21. The method of ^{claim} ~~claim~~ 14, ^{wherein said forming} ~~wherein said forming~~ a first alignment layer includes rubbing a surface of said first alignment layer to form said plurality of first alignment directions.

22. The method of claim 14, further comprising providing a second alignment layer over the second substrate.

23. The method of claim 22, wherein said providing a second alignment layer includes exposing said second alignment layer to ultraviolet light to form a second alignment direction of said alignment layer.

7. The device of claim 6, wherein said first alignment direction is substantially perpendicular to said second alignment direction. *D*

Sub C2

8. A reflective-type liquid crystal display device, comprising:
first and second substrates;
a liquid crystal layer between the first and second substrates ;
at least one uniaxial optical compensation film over the second substrate; and
a first alignment layer having a plurality of first alignment directions over the first substrate.

Sub C3

9. The device of claim 8, wherein said plurality of first alignment directions includes two alignment directions. *Q*

Sub D4

10. The device of claim 8, wherein said at least one uniaxial optical compensation film is negative-type.

11. The device of claim 8, wherein said at least one uniaxial optical compensation film is positive-type.

D

12. The device of claim 8, further comprising a second alignment layer having a second alignment direction over the second substrate.

a 13. The device of claim 12, wherein said second alignment direction of the second alignment layer is different than said plurality of first alignment directions of the first alignment layer.

Sub C3 14. A method for manufacturing a reflective-type liquid crystal display device, comprising:
providing first and second substrates;
providing a liquid crystal layer between the first and second substrates;
providing at least one uniaxial optical compensation film over the second substrate; and
forming a first alignment layer having a plurality of first alignment directions over the first substrate.

Sub D6 15. The method of claim 14, wherein the uniaxial optical compensation film is negative-type.

16. The method of claim 14, wherein the uniaxial optical compensation film is positive-type.

17. The method of claim 14, wherein said plurality of first alignment directions includes two alignment directions.

a

claim wherein said providing

24. The method of claim 22, wherein said providing a second alignment layer includes rubbing a surface of said second alignment layer to form a second alignment direction of said second alignment layer.

25. The method of claim 22, wherein a second alignment direction of the second alignment layer is different than at least one of said first directions of the first alignment layer.

26. The method of claims 20 or 23, wherein said ultraviolet light is non-polarized.

27. The method of claims 20 or 23, wherein said ultraviolet light is partially polarized.

28. The method of claims 20 or 23, wherein said exposing said first or second alignment layer includes exposing it to said ultraviolet light only once.

29. The method for manufacturing reflective-type liquid crystal display device, comprising:

providing first and second substrates;

providing a liquid crystal layer between the first and second substrates;

Contestant 3
providing at least one uniaxial optical compensation film over the second substrate;

forming a first alignment layer over the first substrate;

and

forming a second alignment layer over the second substrate.

30. The method of claim 29, wherein said forming a first alignment layer includes exposing the first alignment layer to Ultraviolet light to form a first alignment direction of the first alignment layer.

31. The method of claim 29, wherein said forming a first alignment layer includes rubbing a surface of the first alignment layer to form a first alignment direction of the first alignment layer .

32. The method of claim 29, wherein said forming a second alignment layer includes exposing the second alignment layer to ultraviolet light to form a second alignment direction of the second alignment layer.

33. The method of claim 29, wherein said forming a second alignment layer includes rubbing a surface of the second alignment layer to form a second alignment direction of the second alignment layer.

34 . The method of claims 30 or 32, wherein the ultraviolet light is

non-polarized.

35. The method of claims 30 or 32, wherein the ultraviolet light is partially polarized.

36. The method of claims 30 or 32, wherein said exposing the first or second alignment layer to ultraviolet light includes exposing it to said ultraviolet light only once.

20190314.00249